

# Uploading Geospatial Data from ArcMap to Your Garmin GPS Using DNR Garmin version 5.1.1 By Lee Woolsey

## Step-1

Connect your GPS to your computer with the serial port connector and turn your GPS on (Make sure that the interface for your GPS is set to GARMIN).

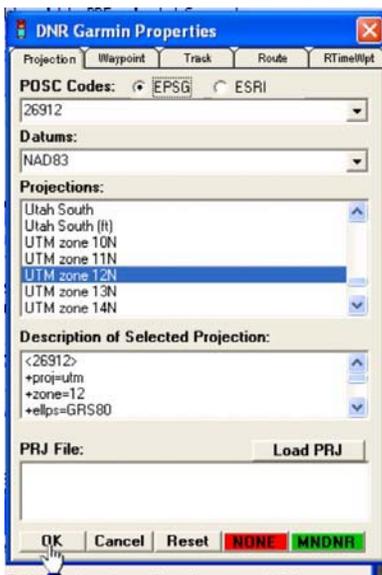
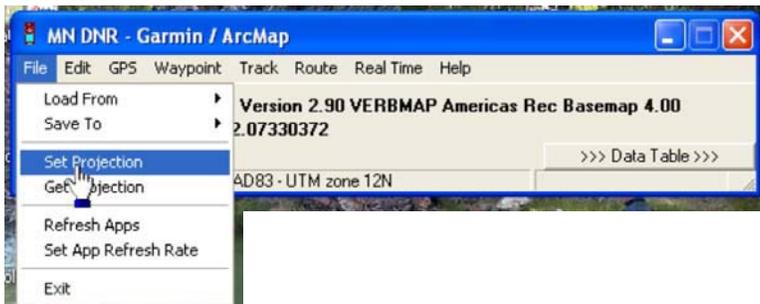
## Step-2

Start DNR Garmin. You should see a box almost or exactly identical to the one below.



## Step-3

Set the projection to NAD-83 UTM zone 12N (you should only have to do this once) and press OK - refer to screenshots below:

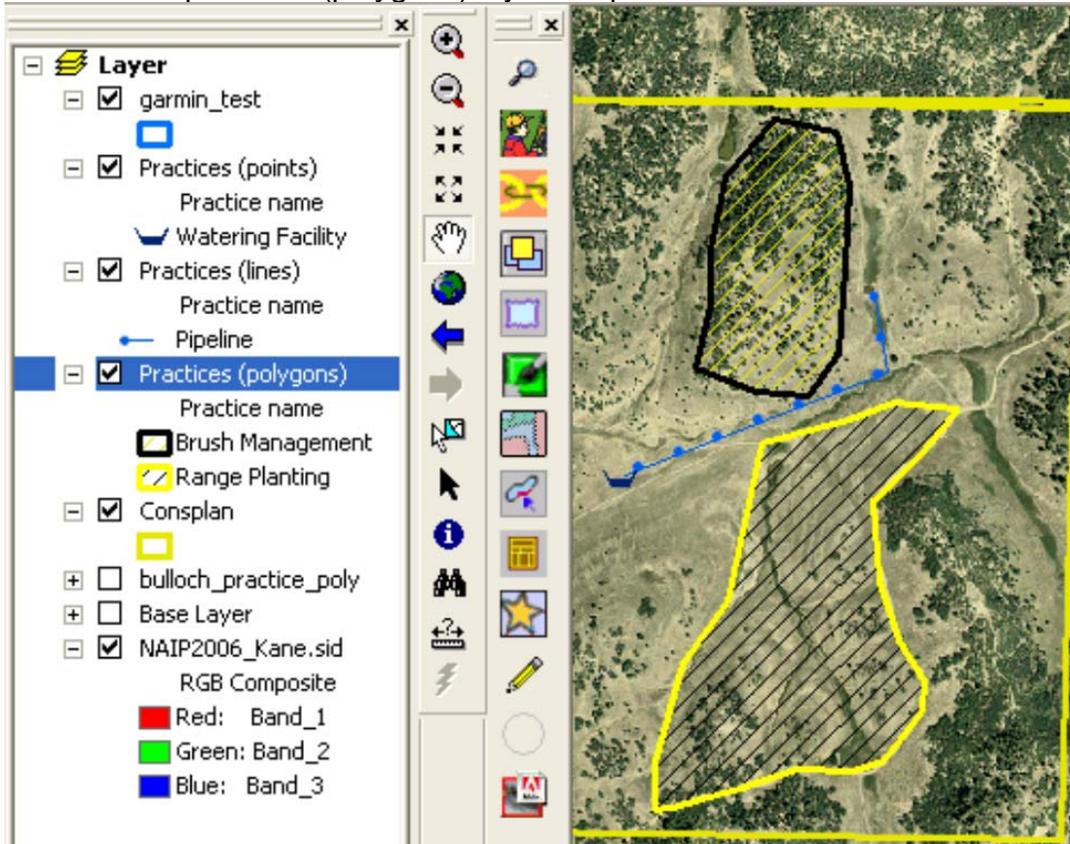


#### Step-4

Start ArcMap either by itself or from a Toolkit folder that you are working on.

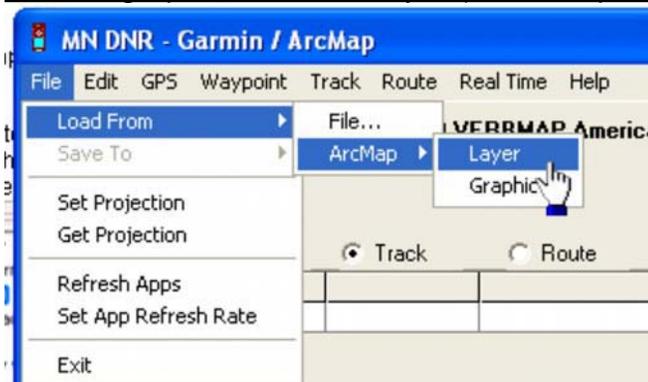
#### Step-5

If you want to upload a plan boundary, practice polygon, practice line, practice point or a shapefile you will need to highlight the layer name that you wish to upload. In the example below we have selected the practices (polygons) layer to upload.



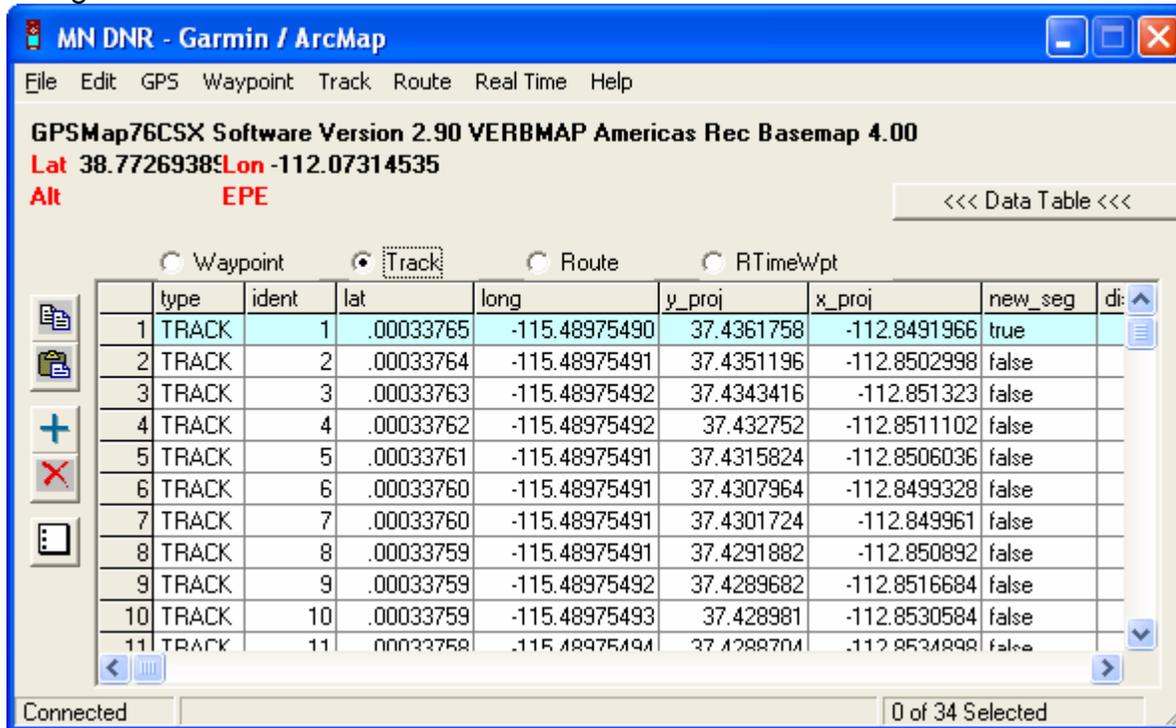
#### Step-6

After you have the layer selected you need to go back to DNR Garmin (It should already be open) and click on File>Load From>ArcMap>Layer. You can also upload a graphic from ArcMap as well, you just need to digitize the graphic (point, line or polygon) and select it with your pointer, then click on graphic instead of layer (in the step displayed below). **See Step-11 for detailed instructions**



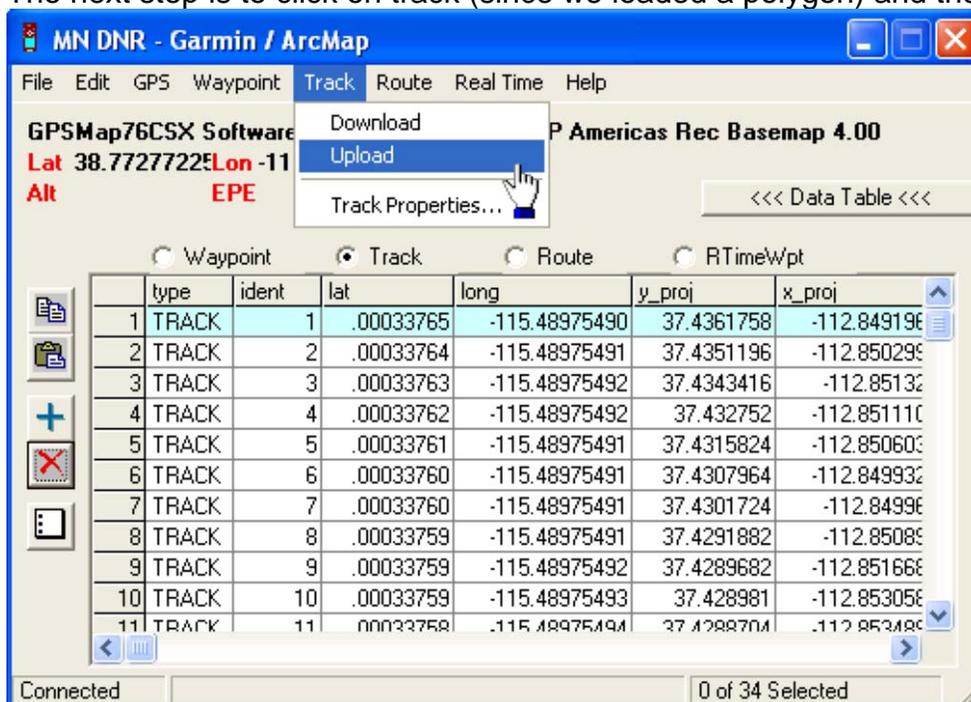
### Step-7

After you click on Layer, the data will upload and your screen should look something like the screen capture below. By default, points are brought in as waypoints and polygons and lines are brought in as tracks.



### Step-8

The next step is to click on track (since we loaded a polygon) and then click on upload.



### Step-9

The tracks are transferred to your GPS and if it is successful a message similar to the one below will be displayed.

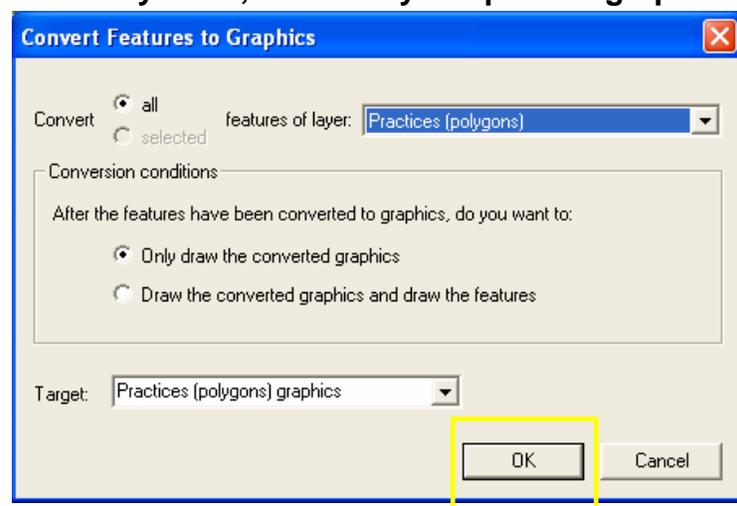
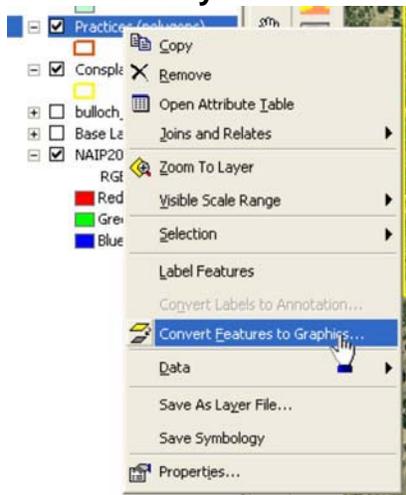


### Step-10

You should verify on your GPS that the data has been transferred correctly before you go to the field. To do this you can use the pan map feature on your GPS and zoom into the anticipated location of your data and verify that it has been transferred correctly.

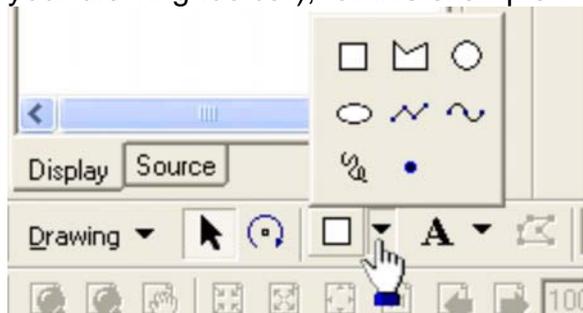


**\*Note if you are having trouble uploading a layer file** you can right click on the layer you are trying to upload and click on convert features to graphics. You can convert all the features or select the ones you want and convert only them, and then you upload a graphic.



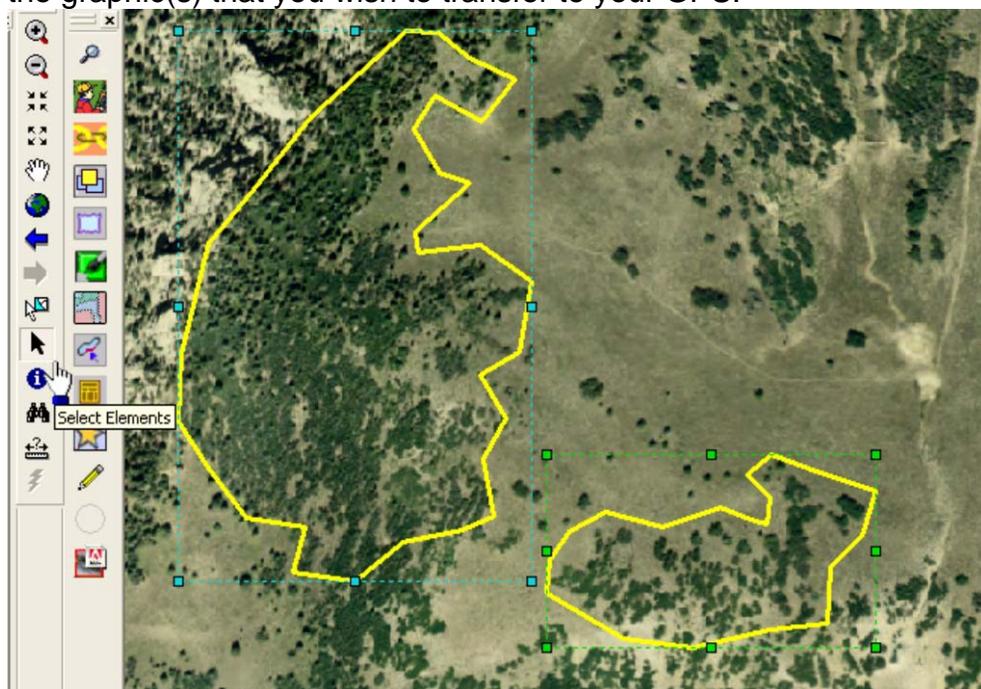
### Step-11 – Uploading a Graphic

If you want to upload a graphic you simply click on the type of graphic you want to digitize (from your drawing toolbar), for this example I will click on the polygon.



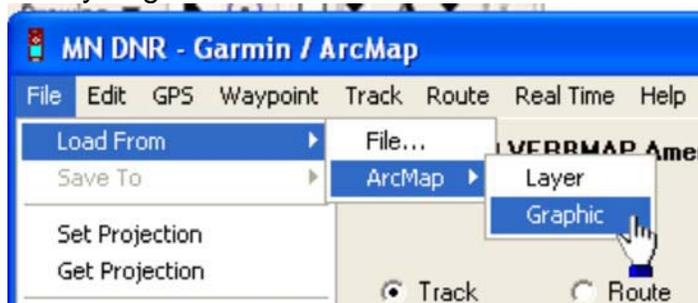
### Step-12

Next you digitize the graphics as accurately as possible. Then you use the black pointer to select the graphic(s) that you wish to transfer to your GPS.



### Step-13

Next you go back to DNR-Garmin and click on File>Load From>ArcMap>Graphic



Continue with Steps-7 thru 10 from above.

**If you have questions or need help please Contact me (Lee Woolsey (435)896-6441 x-140)**